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## DATA PACKET PROCESSING

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### ABSTRACT

3     This invention provides a data packet processing device for  
4     processing data packets received from a network, including:  
5     a processing means for processing data packets; an interface  
6     operable to transmit data packets to and from an external  
7     memory; a scheduling means for assigning priority  
8     information to received data packets, wherein the priority  
9     information determines an order of data packets to be  
10    processed; an internal memory to store data packets; a  
11    memory managing means operable to store data packets in the  
12    external memory and to provide data packets in the internal  
13    memory for processing in the processing means, wherein  
14    depending on the priority information of each of the data  
15    packets, the memory managing means provides the respective  
16    data packets assigned by the respective priority information  
17    in the internal memory for being processed by the processing  
18    means.

19    Figure 1